

CLAIM AMENDMENTS

IN THE CLAIMS

This listing of the claims will replace all prior versions, and listing, of claims in the application or previous response to office action:

1-16. (Cancelled)

17. (Currently Amended) A method for encoding an XML-based document including having contents including a mixed element that is an instance of a complex data type with a mixed content model, the mixed element including one or more XML elements and separate textual content, according to an XML schema language definition, said method comprising the steps of:

generating a coded binary representation of the document by assigning binary structure codes to the contents of the document via code tables,

wherein an the mixed element of the XML-based document a-complex-data-type with a mixed content model comprises a parent node having a binary structure code and in a first hierarchical plane below said parent node a plurality of element nodes having binary structure codes, and

wherein within said complex data type in the first hierarchical plane at least a portion of the textual content of the mixed element of the XML-based document is encoded in a node in the first hierarchical plane as an element having an associated binary structure code.

18. (Currently Amended) The method according to claim 17, wherein the assignment of the structure codes to the textual contents of the mixed element of the XML-based document a-complex-type-data-type with mixed content model is effected exclusively via OperandTBC coding tables.

19. (Currently Amended) The method according to claim 17, wherein the textual contents of the mixed element of the XML-based document a complex type data type with mixed content model are further assigned position codes.

20. (Previously Presented) The method according to claim 19, wherein single element position codes and/or multiple element position codes are used in the assignment of the position codes.

21. (Previously Presented) The method according to claim 19, wherein the position codes are encoded using codes of variable length.

22. (Previously Presented) The method according to claim 21, wherein the position codes are encoded using a code vluimsbf5.

23. (Currently Amended) A method for decoding a coded binary representation of an XML-based document including a mixed element that is an instance of a complex data type with a mixed content model, the mixed element including one or more XML elements and separate textual content, comprising:

receiving a coded binary representation of the document by assigning binary structure codes to the contents of the document via code tables, wherein the mixed element of the XML-based document a complex data type with a mixed content model comprises a parent node having a binary structure code and in a first hierarchical plane below said parent node a plurality of element nodes having binary structure codes;

assigning a structure code to textual content of the mixed element of the XML-based document of the element of the complex data type with a mixed content model as an element node in the first hierarchical plane; and

encoding at least a portion of the textual content of the mixed element of the XML-based document as an element node of the complex data type within the first hierarchical plane.

24. (Previously Presented) The method as claimed in claim 23, wherein the assignment is effected by means of structure codes (SBC) via OperandTBC coding tables.

25. (Previously Presented) The method as claimed in claim 23 wherein binary representations of textual contents of a "complex type" data type with the "mixed" content model, addressed by means of "position codes", are further converted into textual contents at the assigned position.

26. (Previously Presented) The method as claimed in claim 25, wherein the "position codes" comprise "single element position codes" (SPC) and/or "multiple element position codes" (MPC).

27. (Previously Presented) The method as claimed in claim 25, wherein the "position codes" are encoded using codes of variable length.

28. (Previously Presented) The method as claimed in claim 27, wherein the "position codes" are encoded using a code vluimsbf5.

29. (Currently Amended) A device for encoding XML-based documents including having contents including a mixed element that is an instance of a complex data type with a mixed content model, the mixed element including one or more XML elements and separate textual content, according to an XML schema language definition, comprising:

means for generating a coded binary representation of the document by assigning binary structure codes to the contents of the document via code tables, wherein an the mixed element of the XML-based document a-complex-data-type-with-a-mixed-content-model comprises a parent node having a binary structure code and in a first hierarchical plane below said parent node a plurality of element nodes having binary structure codes;

means for assigning a structure code to textual content of the mixed element of the XML-based document of the element of the complex data type with a mixed content model as an element node in the first hierarchical plane; and

means for encoding at least a portion of the textual content of the mixed element of the XML-based document as an element node of the complex data type within the first hierarchical plane.

30. (Currently Amended) A device for decoding XML-based documents including having contents including a mixed element that is an instance of a complex data type with a mixed content model, the mixed element including one or more XML elements and separate textual content, according to an XML schema language definition, comprising:

means for generating a coded binary representation of the document by assigning binary structure codes to the contents of the document via code tables, wherein an the mixed element of the XML-based document a-complex-data-type-with-a-mixed-content-model comprises a parent node having a binary structure code and in a first hierarchical plane below said parent node a plurality of element nodes having binary structure codes;

means for assigning a structure code to textual content of the mixed element of the XML-based document of the element of the complex data type with a mixed content model as an element node in the first hierarchical plane;

means for encoding at least a portion of the textual content of the mixed element of the XML-based document as an element node of the complex data type within the first hierarchical plane; and

means for converting the assigned structure codes into the textual contents of the mixed element of the XML-based document that were assigned to the structure codes.

31. **(Currently Amended)** A method for encoding an XML-based document including having contents including a mixed element that is an instance of a complex data type with a mixed content model, the mixed element including one or more XML elements and separate textual content, according to an XML schema language definition, said method comprising the steps of:

generating a coded binary representation of the document using a tree structure by assigning binary structure codes to nodes via code tables,

wherein the mixed element a-complex-data-type-with-a-mixed-content-model is encoded as a parent node having a binary structure code and in a first hierarchical plane below said parent node a plurality of nodes having binary structure codes,

wherein within said complex data type in the first hierarchical plane at least a portion of the textual content of the mixed element of the XML-based document is encoded as a node in the first hierarchical plane and having an associated binary structure code, and one or more other elements are assigned within said first hierarchical plane wherein the content of said other elements are assigned to a lower hierarchical plane.

32. **(Currently Amended)** The method according to claim [[17]] 31, wherein the assignment of the structure codes to the textual contents of the mixed element of the XML-based document a-complex-type-data-type-with-mixed-content-model is effected exclusively via OperandTBC coding tables.

33. **(Currently Amended)** The method according to claim [[17]] 31, wherein the textual contents of the mixed element of the XML-based document a-complex-type-data-type-with-mixed-content-model are further assigned position codes.

34. **(Currently Amended)** The method according to claim [[19]] 33, wherein single element position codes and/or multiple element position codes are used in the assignment of the position codes.

35. **(Currently Amended)** The method according to claim [[19]] 33, wherein the position codes are encoded using codes of variable length.

36. **(Currently Amended)** The method according to claim [[21]] 35, wherein the position codes are encoded using a code vluimsbf5.